

AFSC 2A3X2
F-16/F-117/CV-22 AVIONIC SYSTEMS
CAREER FIELD EDUCATION AND TRAINING PLAN

This change is effective 1 Nov 98. This change is the equivalent of publication of a new CFETP and compliance with AFI 36-2201, paragraph 4.11.6.1. and other training policies and documentation is required. Changes on replaced pages are denoted with a star (★). CFETP 2A3X2, October 1997, is changed as follows:

1. Write-in changes to Master Task Lists (MTL) only, there is no need to write this change in individual records:

<u>Page</u>	<u>Para</u>	<u>Line</u>	<u>Action</u>
17	15.1.1.4.	1	Add as first two sentences. "Personnel who enter upgrade training on or after 1 Oct 97 must complete all three shredded (2A3X2A/B/C) CDCs for upgrade. Those personnel in upgrade training prior to 1 Oct 97 may be upgraded but must be placed in TSC "D" until all three shredded CDCs and revised core tasks are completed."

2. Write-in changes to MTL and individual records:

<u>Page</u>	<u>Para</u>	<u>Column</u>	<u>Action</u>
40	A3.4.1.	4A(1)	Change "A" to "-"
40	A3.4.2.	4A(1)	Change "A" to "-"
40	A3.4.3.	4A(1)	Change "B" to "-"
40	A3.4.4.	4A(1)	Change "b" to "-"
40	A3.5.1.	4A(1)	Change "A" to "-"
40	A3.5.2.	4A(1)	Change "A" to "-"
40	A3.6.1.	4A(1)	Change "A" to "-"
41	A3.8.1.	4A(1)	Change "A" to "-"
41	A3.8.2.	4A(1)	Change "A" to "-"
41	A3.8.4.	4A(1)	Change "b" to "-"
46	A4.7.6.	2B	Delete "*"
46	A4.7.7.	2B	Add "*"

3. Post the following changes in the MTL and individual records.
- 3.1. Delete pages 11 and 12. Insert new pages 11 and 12 (blank).
- 3.2. Delete pages 13 and 14. Insert new pages 13 and 14.

3.3. Delete pages 19-22. Insert new pages 19-22. NOTE: Documentation instructions were changed to align with AFMAN 36-2247. There is NO REQUIREMENT to change documentation on tasks certified/transcribed prior to the effective date of this change (1 Nov 98).
3.4. Delete pages 105 and 106. Insert new pages 105 and 106.

4. After necessary action, file this change in the back of the CFETP.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

WILLIAM P. HALLIN, Lieutenant General, USAF
DCS/Installations and Logistics

★8. Career Field Path

★Table 8.1 Enlisted Career Path				
Education and Training Requirements	Grade Requirements			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
Basic Military Training School				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 16 months		
Upgrade To Journeyman (5-Skill Level) - Minimum 15 months on-the-job training. - Complete appropriate CDC if/when available.	Amn A1C SrA	6 months 16 months 3 years	28 months	10 Years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
<u>Trainer</u> - Qualified and certified to perform the task to be trained. - Have attended the formal trainer's course and appointed in writing by Commander.	<u>Certifier</u> - Be at least a 5-skill level SSgt; and qualified and certified to perform the task being certified - Attend formal certifier course and appointed in writing by Commander. - Be a person other than the trainer.			
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - 18 months OJT. - Complete appropriate CDC if/when available. - Advanced Technical School.	SSgt	7.5 years	3 years	20 Years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt	12.5 years	5 years	20 Years
	MSgt	16 years	8 years	24 Years
USAF Senior NCO Academy (SNCOA) - Must be a SMSgt or SMSgt Selectee. - A percentage of top nonselect (for promotion to E-8) MSgts attend the SNCOA each year. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).	CMSgt	21.5 years	14 years	30 Years

★8.2. Education and Training Manager Checklist:

★Table A8.2. Base/Unit Education and Training Manager Checklist		
Requirements for Upgrade to:	Y	N
Journeyman - Has the apprentice completed mandatory CDCs, if available? NOTE: Upgrade trainees will not be required to retake their respective shred 5-level CDC again to fulfill requirements. The below matrix provides continuity for 2A3X2 CDCs completed prior to restructures/mergers: <div style="margin-left: 40px;"> 32656C converted to 45252A converted to 2A352A 32657C converted to 45252B converted to 2A352B 32658C converted to 45252C converted to 2A352C </div> - Has the apprentice completed all core tasks identified in the CFETP? - Has the apprentice completed all other duty position tasks identified by the supervisor? - Has the apprentice completed 15 months training (9 months for retrainees) for award of the 5-skill level? - Has the apprentice met mandatory requirements listed in specialty description, AFMAN 36-2108 (Airman Classification), and CFETP? - Has the apprentice been recommended by their supervisor?		
Craftsman - Has the journeyman achieved the rank of SSgt? - Has the journeyman completed mandatory CDCs, if available? - Has the journeyman completed all core tasks identified in the CFETP? - Has the journeyman completed all other duty position tasks identified by the supervisor? - Has the journeyman attended 7-skill level Craftsman Course (if available)? First, they must complete: -- All 7-skill level training requirements listed in the CFETP. -- All applicable mandatory CDCs and/or exportable courses. -- A minimum of 12 months UGT (6 months for retrainees). - Has the journeyman completed a minimum 18 months OJT (12 months for retrainees) for award of the 7-skill level?		
Journeyman Qualification Training (see para. 15.1.1.4. on page 17, must be completed by 30 Apr 99) - Journeyman not currently in upgrade training, will be assigned training status code (TSC) D until all mandatory MDS core tasks, and CDC requirements, as stated above, are complete. Previously qualified 7 levels assigned training status code D will not be required to attend the in-residence seven level course.		

TO: Squadron/CC

FROM: Squadron Training Manager

SUBJECT: Upgrade _____(Trainee Name)

Trainee is prepared to be upgraded and has completed all mandatory training requirements.
 Supervisor recommends upgrade.

Training Manager_____
Supervisor

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

9. Purpose: Skill level training requirements in this career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS in Part II, Sections A and B of this CFETP.

10. Specialty Qualification: The various skill levels in this career field are defined in terms of tasks and knowledge proficiency requirements for each skill level. They are stated in broad general terms and establish the standards of performance. The specific task and knowledge training requirements are identified in the STS in Part II, Section A of the CFETP. Unit work centers must develop a structured training program to ensure the following requirements are met.

10.1. Apprentice Level Training:

10.1.1. Specialty Qualification: To perform duties at the apprentice level, an individual must be able to understand basic system theory of operation and be able to perform certain on-equipment task certification items identified in Part II. Individuals must be competent on all procedures and tasks with only spot-checking of all work required to be Mission Ready capable.

10.1.1.1. Knowledge: An apprentice must be able to use technical data, common hand tools, and special test equipment. Apprentices must be qualified to remove and install system LRUs, perform operational checks, troubleshoot very simple avionic systems to the fault identification level, use support equipment, trace simple signal/data flow of system schematic diagrams, and document maintenance actions in the automated data system.

10.1.1.2. Education: For entry into this specialty, completion of high school with courses in basic electronics, mathematics, general science and physics is desirable.

10.1.1.3. Training: Training to the three-skill level will require completion of the initial skills courses which include Electronic Principles conducted at Lackland AFB and AFSC specific training conducted at Sheppard AFB TX.

10.1.1.4. Experience: There is no experience necessary for entry into AFSC 2A3X2.

10.1.1.5. Other:

10.1.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123 is mandatory.

10.1.1.5.2. For award and retention of AFSC 2A332, eligibility for a Secret security clearance according to AFI 31-501.

10.1.2. Training Sources: The initial skills courses will provide the required knowledge and qualification training. Training encompasses basic electronic principles, system theory and operation, system components, and component removal and installation. Additionally, introduction to maintenance concepts, general flightline maintenance practices, use of technical publications, maintenance documentation, and support equipment are provided.

10.1.3. Implementation: Upon graduation from Basic Military Training, airmen will attend Course L3AQR40020 090, Electronic Principles. Prior to implementation of the shredless resident course in Aug 98, completion of electronic principles and one of the following courses will result in award of the 3-level: J3ABR2A332A 002, F-16 C/D Avionic Attack Control Systems Apprentice; J3ABR2A332B 002, F-16 C/D Avionic Instrument and Flight Control Systems Apprentice; or

PART II

SECTION A - SPECIALTY TRAINING STANDARD

1. Implementation: This STS will be used for technical training provided by Air Education and Training Command for classes beginning Aug 98 and graduating Feb 99.

2. Purpose: As prescribed in AFI 36-2201, this STS:

2.1. Lists in the column 1 (task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties in the 3-, 5-, and 7-skill level. An asterisk (*) before the number indicates a wartime course objective.

★2.2. Column 2 (Core Tasks) identifies, by asterisk (*), specialty-wide training requirements. Core tasks identified with an *R are optional for AFRC and ANG. As a minimum, certification on all shop/flightline core tasks applicable to one Mission Design Series (MDS) aircraft assigned must be completed for skill level upgrade. Core task exemptions: (1) core tasks which are not applicable to base assigned aircraft or equipment are not required for upgrade (units are not required to send personnel TDY for core task training); (2) units are not exempt from minimum core task training if aircraft/equipment are assigned to another unit on base, and (3) core tasks on more than one assigned MDS are not required unless deemed mandatory by the MAJCOM FM, unit, and/or supervisor.

2.3. Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. Task certification must show a certification/completed date.

2.4. Show formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as result of training on the task/knowledge and the career knowledge provided by the correspondence course. When two codes are used in columns 4A and 4C(1) (e.g. 2b/b), the first code is the established requirement for resident training on the task/knowledge, and the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listing.

2.5. Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

2.6. Qualitative Requirements: Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

★2.7. Job Qualification Standard: Becomes a Job Qualification Standard (JQS) for on-the-job training (OJT) when placed in the AF Form 623, **On-the-Job Training Record**, and used according to AFI 36-2201. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. "Go" means the individual can perform the task without assistance and meets local

requirements for accuracy, timeliness, and correct procedures. When used as a JQS, the following requirements apply:

★2.7.1. Documentation: Document and certify completion of training. Automated records, utilizing Core Automated Management System (CAMS) or Integrated Maintenance Data System (IMDS)/Global Combat Support System (GCSS), reflecting this STS may be used and are highly encouraged. Use of attachments one, two and four is mandatory in individual training records; use of attachments three, five and six is optional depending upon duty position. Attachment seven is not used in training records. Document entries in accordance with AFMAN 36-2247, Chapter 5. Identify duty position requirements by circling (in pencil) the subparagraph number next to the task statement. As a minimum, complete the following columns: date training completed, trainee initials, trainer initials, and certifier initials (core tasks only). Trainers may sign off non-core and non-critical tasks by initialing the trainer's column; third party certification is not required for non-core and non-critical tasks. There are no approved AFJQS for this AFSC.

★2.7.1.1. Converting from Old Document to CFETP: All AFJQSs and previous CFETPs are replaced by this CFETP; therefore, conversion of all training records to this CFETP STS is mandatory. Use this CFETP STS (or automated STS) to identify and certify all past and current qualifications. For those tasks previously certified and required in the current duty position, evaluate current qualifications and, when verified, recertify using current date as completion date and trainee, trainer, and certifier enter initials. For non-core and non-critical tasks only the trainer and trainee initials are required. For previous certification on tasks not required in the current duty position, carry forward *only* the previous completion date. If and when these tasks become a duty position requirement, recertify using standard certification procedures.

★2.7.1.2. Documenting Career Knowledge: When a CDC is not available: the supervisor identifies CFETP part II training references that the trainee requires for career knowledge and ensures, as a minimum, that trainees cover the mandatory items in AFI 26-2108. For two-time CDC course exam failures: supervisors identify all Part II items corresponding to the areas covered by the CDC. The trainee completes a study of references, undergoes evaluation by the task certifier, and receives certification on the CFETP Part II. Supervisors must document successful completion of career knowledge prior to submission of a CDC waiver.

2.7.1.3. Decertification and Recertification: When an airman is found to be unqualified on a task previously certified for his or her position, the supervisor lines through the previous certification or deletes previous certification when using automated system. Appropriate remarks are entered on the AF Form 623A, **On-The-Job Training Record Continuation Sheet**, as to the reason for decertification. The individual is recertified (if required) either by erasing the old entries and writing in the new or by using correction fluid/tape (if the entries are in ink) over the previously certified entry.

★2.7.2. AF Form 797. When additional items not listed in the CFETP Part II are necessary in the current duty assignment, enter them on the AF Form 797. Fill out the form IAW AFMAN 36-2247.

★2.7.3. Disposition of Training Records. Upon separation, retirement, commissioning, or promotion to Master Sergeant (unless otherwise directed by the AFCFM, MAJCOM, unit commander, or supervisor), give the individual their training records. Also, give individuals outdated training records after transcribing records. Do not remove any training records that show past qualifications unless transcribed to a new CFETP/AFJQS. For example, an individual

working in a tool crib must maintain documented career field qualifications in case they return to duty on the flightline. Supervisors must exercise good judgment when removing training records not needed in current duty positions.

★3. Recommendations: Report unsatisfactory performance of individual course graduates to the AETC training manager at 365 TRS/TRR, 609 9th Ave, Sheppard AFB TX, 76311-2335, DSN 736-7901. Reference specific STS paragraphs. For a quick response to problems, call our customer service information line, DSN 736-2574.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

WILLIAM P. HALLIN, Lieutenant General, USAF
DCS/Installations and Logistics

7 Attachments

1. Proficiency Code Key (Mandatory to file in training records with Pages 19-21)
2. Training Requirements, F-16 Commons (Mandatory)
3. Training Requirements, F-16 A/B Aircraft (Optional)
4. Training Requirements, F-16 C/D Aircraft (Mandatory)
5. Training Requirements, F-117 Aircraft (Optional)
6. Training Requirements, Electronic Principles (Optional)
7. Training Matrix (Not used in training records)

PROFICIENCY CODE KEY

<i>This Block Is For Identification Purposes Only</i>		
Name Of Trainee		
Printed Name (<i>Last, First, Middle Initial</i>)	Initials (Written)	SSAN
Printed Name Of Training/Certifying Official And Written Initials		
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	
<i>N/I</i>	<i>N/I</i>	

QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	Definition: The individual
Task Performance Levels	1	IS EXTREMELY LIMITED (Can do simple parts of the task. Needs to be told or shown how to do most of the task.)
	2	IS PARTIALLY PROFICIENT (Can do most parts of the task. Needs only help on hardest parts.)
	3	IS COMPETENT (Can do all parts of the task. Needs only a spot check of completed work.)
	4	IS HIGHLY PROFICIENT (Can do the complete task quickly and accurately. Can tell or show others how to do the task.)
*Task Knowledge Levels	a	KNOWS NOMENCLATURE (Can name parts, tools, and simple facts about the task.)
	b	KNOWS PROCEDURES (Can determine step by step procedures for doing the task.)
	c	KNOWS OPERATING PRINCIPLES (Can identify why and when the task must be done and why each step is needed.)
	d	KNOWS ADVANCED THEORY (Can predict, isolate, and resolve problems about the task.)
**Subject Knowledge Levels	A	KNOWS FACTS (Can identify basic facts and terms about the subject.)
	B	KNOWS PRINCIPLES (Can identify relationship of basic facts and state general principles about the subject.)
	C	KNOWS ANALYSIS (Can analyze facts and principles and draw conclusions about the subject.)
	D	KNOWS EVALUATION (Can evaluate conditions and make proper decisions about the subject.)
<p>Explanations</p> <p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the courses or CDCs.</p> <p>X This mark is used in course columns to show that training is required but not given due to limitations in resources (3c/b, 2b/b etc.).</p> <p>Note: Tasks and knowledge items shown with an asterisk (*) in column one are trained during war time.</p>		

★9.2 Extension Course Institute (ECI) Courses:

<u>COURSE NUMBER</u>	<u>TITLE</u>	<u>OPR</u>
CDC 2A352	F-16 Integrated Avionic Systems Journeyman	365 TRS/TRR 609 9 th Ave Sheppard AFB, TX 76311-2335 DSN 736-7908
CDC 2A352A	F-16 Integrated Avionic Attack Control Systems Journeyman	365 TRS/TRR Same as above
CDC 2A352B	F-16 Integrated Avionic Instrument and Flight Controls Systems Journeyman	365 TRS/TRR Same as above
CDC 2A352C	F-16 Integrated Avionic Communication, Navigation and Penetration Aids Systems Journeyman	365 TRS/TRR Same as above
CDC 2A352D	F-16/F-117/CV-22 Integrated Organizational Avionic Systems Journeyman	365 TRS/TRR Same as above
CDC 2AX7X	Aerospace Maintenance Craftsman	365 TRS/TRR Same as above

9.3. Exportable Courses: There are no exportable courses required for this specialty.

★9.4. Courses Under Development:

<u>COURSE NUMBER</u>	<u>PDS</u>	<u>TITLE</u>	<u>OPR</u>
J3ABR 2A332 000	5MI	F-16 C/D (MRT) Avionic Systems Apprentice	365 TRS/TRR 609 9 th Ave Sheppard AFB, TX 76311-2335 DSN 736-7901

9.5. Courses Under Revision: There are currently no courses under revision.

★SECTION E – MAJCOM UNIQUE REQUIREMENTS

10. Currently only Air Combat Command has a MAJCOM mandatory course list (MMCL). MAJCOMs change mandatory course requirements occasionally. Up-to-date ACC requirements can be obtained at <http://www.acclog.af.mil/lgq/lgqt/98mmcl.doc> . Refer to the HQ ACC MMCL for additional information. The below requirements are current as of 28 Aug 98.

<u>COURSE NUMBER</u>	<u>TITLE</u>	<u>MDS</u>
2A3X2-010	F-16 Avionics Sys Craftsman Block 50	F-16
2A3X2-012	F-16 Avionics Flight Control Block 40/42 Delta	F-16
2A3X2A-006	F-16C/D Avionics (Attack Control) (Cross)	F-16
2A3X2B-001	F-16 Avionics (Instrument/Flight Control) (Cross)	F-16
2A3X2C-002	F-16 Avionics (Comm/Nav) (Cross)	F-16
2A3X2-006	F-117A Aircraft Integrated Avionics System (Cross)	F-117
2A3X2-008	F-117A Aircraft Integrated Avionics System	F-117